

1. Draw & describe the normal synaptic events that take place. Be sure to label the names of essential components.
2. Draw & describe how each conotoxin takes effect to paralyze prey. Be sure to label where each toxin takes effect.
3. Provide reasoning for why cone snails need all four conotoxin types in the motor cabal and not just one.
4. Explain the difference between a “Flaccid Paralysis” and an “Excitotoxic Shock”.
5. At about 18:10 in the video, an image of a nerve structure is shown. Describe where on a nerve cell this picture is showing.
6. Draw & describe what usually happens at this location (from #5).
7. Using the sodium & potassium channel reference at about 18:30, explain why a nerve signal travels in one direction only.
8. Draw & describe the effects of the delta & kappa conotoxins on the neuron. Be sure to label where each toxin takes effect.
9. In contrast to traveling in one direction, the delta & kappa conotoxins have an effect in which signals travel erratically. Explain this phenomenon & what the result on organism movement is.
10. After prey is initially paralyzed by the snail it recovers. How can this be explained?
11. Summarize the function of each cabal (motor & lightning strike) as it relates to the impact on the nervous system of prey.
12. Describe how the presenter resolves the 2 original questions he addressed.